QC ABSTRACT

NAME OF WORK: Drilling of Borewell Providing Pipeline in Ward No 8 Kodigehalli.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
2	BM	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
3	SDBC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
4	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1

TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2020-07-22-55** **Date: 08-07-20**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Drilling of Borewell Providing Pipeline in Ward No 8 Kodigehalli.

Agency : Sri. S. Vinod Kumar, #10, Vankatamma Layout, 3rd Cross, Thindlu Main Road, Vidyaranyapua (P), Bangalore-560097.

Customer Reference : BBMP/EE/BTP/WO/169/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-07-20

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 06-07-20

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

Note:-

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Assistant Executive Engineer,
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Bangalore.

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2020-07-22-55**	**Date: 08-07-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Drilling of Borewell Providing Pipeline in Ward No 8 Kodigehalli.	
Agency	:	Sri. S. Vinod Kumar, #10, Vankatamma Layout, 3rd Cross, Thindlu Main Road, Vidyaranyapua (P), Bangalore-560097.	
Customer Reference	:	BBMP/EE/BTP/WO/169/2019-20	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	06-07-20	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	06-07-20	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2020-07-22-55** **Date: 08-07-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Drilling of Borewell Providing Pipeline in Ward No 8 Kodigehalli.
Agency	:	Sri. S. Vinod Kumar, #10, Vankatamma Layout, 3rd Cross, Thindlu Main Road, Vidyaranyapua (P), Bangalore-560097.
Customer Reference	:	BBMP/EE/BTP/WO/169/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-07-20
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	06-07-20

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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TEST RESULTS OF GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : CP-RW-2020-07-22-55 **Date: 13-07-20**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Drilling of Borewell Providing Pipeline in Ward No 8 Kodigehalli.

Agency : Sri. S. Vinod Kumar, #10, Vankatamma Layout, 3rd Cross, Thindlu Main Road, Vidyaranyapua (P), Bangalore-560097.

Customer Reference : BBMP/EE/BTP/WO/169/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-07-20

Type of Mix : BM-Plant (Bituminous Macadam)

Date of test : 10-07-20

Weight of Sample(gm) : 5000

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0	100	100
19	165	165	3.3	96.7	90-100
13.2	512	677	13.5	86.5	56-88
4.75	2759	3436	68.7	31.3	16-36
2.36	911	4347	86.9	13.1	4-19
0.3	358	4705	94.1	5.9	2-10
0.075	232	4937	98.7	1.3	0-8
PAN	63	5000	100.0	0.0	0

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS MACADAM

Lab ID	:	**CP-RW-2020-07-22-55** **Date: 13-07-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Drilling of Borewell Providing Pipeline in Ward No 8 Kodigehalli.
Agency	:	Sri. S. Vinod Kumar, #10, Vankatamma Layout, 3rd Cross, Thindlu Main Road, Vidyaranyapua (P), Bangalore-560097.
Customer Reference	:	BBMP/EE/BTP/WO/169/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-07-20
Type of Mix	:	BM (Bituminous Macadam)
Date of test	:	10-07-20

Table 500-6 : Physical Requirements fo Coarse Aggregate for Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	13.8	Combined Flakiness & Elongation Index for BM is Maximum 35%	IS:2386 Part I
	Elongation Index	7.2		
Strength	Aggregate Impact Value	25.2	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.51	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.17	Maximum 2%	IS:2386 Part III

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2020-07-22-55** **Date: 13-07-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Drilling of Borewell Providing Pipeline in Ward No 8 Kodigehalli.
Agency	:	Sri. S. Vinod Kumar, #10, Vankatamma Layout, 3rd Cross, Thindlu Main Road, Vidyaranyapua (P), Bangalore-560097.
Customer Reference	:	BBMP/EE/BTP/WO/169/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-07-20
Type of Mix	:	BM(Bitumnous Macadam)
Date of test	:	10-07-20

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2020-07-22-55** **Date: 13-07-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Drilling of Borewell Providing Pipeline in Ward No 8 Kodigehalli.
Agency	:	Sri. S. Vinod Kumar, #10, Vankatamma Layout, 3rd Cross, Thindlu Main Road, Vidyaranyapua (P), Bangalore-560097.
Customer Reference	:	BBMP/EE/BTP/WO/169/2019-20
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	10-07-20
Type of Mix	:	BM (Bituminous Mecadam)
Date of test	:	10-07-20

The results of the tests conducted on the Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.29	11.82	9KN(Min)
2	Marshal flow at 60°C, mm	3.54	3.87	2-4
3	Percent air Voids	4.56	4.17	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.54	14.76	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.98	70.28	65-75
6	Density, g/cc	2.42	2.40	–

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BM (IS 2386:(Part 1) 1963 (RA2011)

Lab ID : **CP-RW-2020-07-22-55** **Date: 20-07-20**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Drilling of Borewell Providing Pipeline in Ward No 8 Kodigehalli.

Agency : Sri. S. Vinod Kumar, #10, Vankatamma Layout, 3rd Cross, Thindlu Main Road, Vidyaranyapua (P), Bangalore-560097.

Customer Reference : BBMP/EE/BTP/WO/169/2019-20

Source of Sample : Sample supplied by Agency

Date of Receipt : 18-07-20

Type of Mix : BM (Bituminous Macadam)

Date of test : 18-07-20

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	477	475
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.6	5.00
4	Average percentage	%	4.80	

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ID : CP-RW-2020-07-22-55 Date: 20-07-20

AFTER EXTRACTION(Trail-1)

Weight of Sample : 477 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	38	38	8.0	92.0	90-100
13.2	147	185	38.8	61.2	56-88
4.75	191	376	78.8	21.2	16-36
2.36	28	404	84.7	15.3	4-19
0.3	32	436	91.4	8.6	2-10
0.075	31	467	97.9	2.1	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 475 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	38	38	8.0	92.0	90-100
13.2	147	185	38.9	61.1	56-88
4.75	191	376	79.2	20.8	16-36
2.36	28	404	85.1	14.9	4-19
0.3	28	432	90.9	9.1	2-10
0.075	30	462	97.3	2.7	0-8

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TEST RESULTS OF GRADATION FOR SDBC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : **CP-RW-2020-07-22-55** **Date: 16-07-20**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Drilling of Borewell Providing Pipeline in Ward No 8 Kodigehalli.

Agency : Sri. S. Vinod Kumar, #10, Vankatamma Layout, 3rd Cross, Thindlu Main Road, Vidyaranyapua (P), Bangalore-560097.

Customer Reference : BBMP/EE/BTP/WO/169/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-07-20

Type of Mix : SDBC-Plant (Semi Dense Bituminous Concrete)

Date of test : 14-07-20

Weight of Sample : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0.0	100.0	100
9.5	410	410	8.2	91.8	90-100
4.75	2187	2597	51.9	48.1	35-51
2.36	1038	3635	72.7	27.3	24-39
1.18	525	4160	83.2	16.8	15-30
0.3	380	4540	90.8	9.2	9-19
0.075	169	4709	94.2	5.8	3-8
PAN	291	5000	100.0	0.0	0

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR SEMI DENSE BITUMINOUS CONCRETE

Lab ID : **CP-RW-2020-07-22-55** **Date: 17-07-20**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Drilling of Borewell Providing Pipeline in Ward No 8 Kodigehalli.

Agency : Sri. S. Vinod Kumar, #10, Vankatamma Layout, 3rd Cross, Thindlu Main Road, Vidyaranyapua (P), Bangalore-560097.

Customer Reference : BBMP/EE/BTP/WO/169/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-07-20

Type of Mix : SDBC (Semi Dense Bituminous Concrete)

Date of test : 14-07-20

Physical Requirements fo Coarse Aggregate for Semi Dense Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	11.1	Combined Flakiness & Elongation Index for DBM is Maximum 35%	IS:2386 Part I
	Elongation Index	9.5		
Strength	Aggregate Impact Value	21.8	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.58	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.31	Maximum 2%	IS:2386 Part III

Note:-

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2020-07-22-55** **Date: 17-07-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Drilling of Borewell Providing Pipeline in Ward No 8 Kodigehalli.
Agency	:	Sri. S. Vinod Kumar, #10, Vankatamma Layout, 3rd Cross, Thindlu Main Road, Vidyaranyapua (P), Bangalore-560097.
Customer Reference	:	BBMP/EE/BTP/WO/169/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-07-20
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of test	:	14-07-20

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	99.0	1.0	98.8	Minimum Retained Coating 95%
2	98.5	1.5		
3	99.0	1.0		

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2020-07-22-55** **Date: 17-07-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Drilling of Borewell Providing Pipeline in Ward No 8 Kodigehalli.
Agency	:	Sri. S. Vinod Kumar, #10, Vankatamma Layout, 3rd Cross, Thindlu Main Road, Vidyaranyapua (P), Bangalore-560097.
Customer Reference	:	BBMP/EE/BTP/WO/169/2019-20
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	14-07-20
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of test	:	14-07-20

The results of the tests conducted on the Semi Dense Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-16
1	Marshal Stability at 60°C, KN	10.54	10.11	8.2KN(min)
2	Marshal flow at 60°C, mm	3.22	3.29	2-4
3	Percent air Voids	4.59	4.25	3-5
4	Percent Voids in mineral Aggregate(VMA %)	13.88	13.94	13-15
5	Percent Voids filled with Bitumen(VFB %)	70.32	70.0	65-75
6	Density, g/cc	2.26	2.24	–

Note:-
The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

Page 1/1
End of Report

Assistant Executive Engineer, Kodigehalli Sub Division, B.B.M.P.

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR SDBC
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : **CP-RW-2020-07-22-55** **Date: 21-07-20**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Drilling of Borewell Providing Pipeline in Ward No 8 Kodigehalli.

Agency : Sri. S. Vinod Kumar, #10, Vankatamma Layout, 3rd Cross, Thindlu Main Road, Vidyaranyapua (P), Bangalore-560097.

Customer Reference : BBMP/EE/BTP/WO/169/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-07-20

Type of Mix : SDBC (Semi Dense Bituminous Concrete)

Date of test : 20-07-20

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	502	501
2	Weight of the sample After extraction	B	478	477
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.78	4.79
4	Average percentage	%	4.8	

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Authorized Signatory
Quality Manager

CIVIL PRO Sig. Date BANGALORE

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Lab ID : **CP-RW-2020-07-22-55** **Date: 21-07-20**

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 478

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	31	31	6.49	93.5	90-100
4.75	213	244	51.05	49.0	35-51
2.36	63	307	64.23	35.8	24-39
1.18	39	346	72.38	27.6	15-30
0.3	71	417	87.24	12.8	9-19
0.075	34	451	94.35	5.6	3-8
PAN	27	478	100.00	0.0	0

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 477

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	29	29	6.08	93.9	90-100
4.75	215	244	51.15	48.8	35-51
2.36	62	306	64.15	35.8	24-39
1.18	41	347	72.75	27.3	15-30
0.3	66	413	86.58	13.4	9-19
0.075	32	445	93.29	6.7	3-8
PAN	32	477	100.00	0.0	0

Note:-
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R KARTHIK RECHAN
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Quality Manager

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End of Report

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Kodigehalli Sub Division,
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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID : **CP-RW-2020-07-22-55** **Date: 11-07-20**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Drilling of Borewell Providing Pipeline in Ward No 8 Kodigehalli.

Agency : Sri. S. Vinod Kumar, #10, Vankatamma Layout, 3rd Cross, Thindlu Main Road, Vidyaranyapua (P), Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/169/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-07-20

Sample Type : Bitumen

Reference to BIS codes : IS: 1201-1220(1978) (Reaffirmed-2004)

Date of test : 09-07-20

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

Note:-

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Quality Manager

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****End of Report****